



U.S. Department of Energy
Energy Efficiency and Renewable Energy

Tribal Lands Student Internship Program

Sandia National Laboratories

National Renewable Energy Laboratories

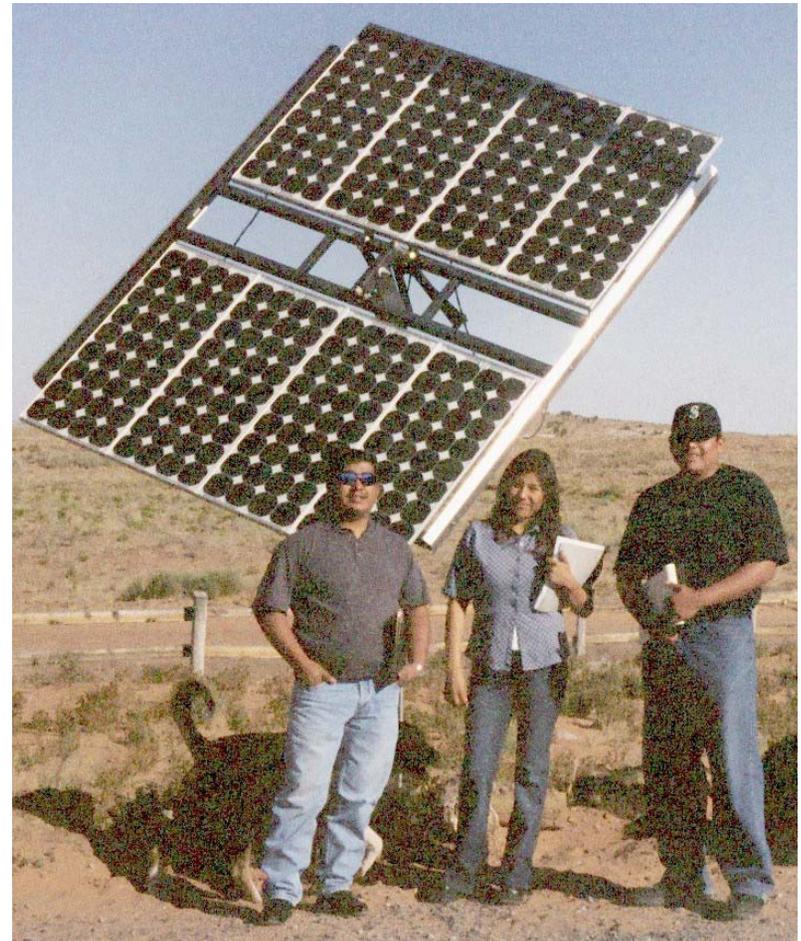
Department of Energy

The Navajo Tribal Utility Authority



2003 Tribal Lands Program Interns

- Shaun Tsabetsaye
 - **Zuni**
 - **University of New Mexico**
 - **Electrical Engineering**
- Velissa Sandoval
 - **Navajo/Zuni**
 - **University of Denver**
 - **Electrical Engineering**
- Keith Candelaria
 - **Jemez/San Felipe**
 - **Dartmouth College**
 - **Environmental/Earth Science**





Several research methods used to understanding NTUA's O&M processes

The methods for understanding the processes:

- Reviewed NTUA's DOE Solar Electrification Demonstration Project reports
- Interacted with several solar program personnel
 - Solar Program Manager
 - Electricians
 - Customer Service Representative
- Visited installations where the process was observed
- Clarified information on drafted flowcharts



Field Visit to NTUA customer: Bertha Simpson's Residence Narrow Canyon - Kayenta District, Arizona

One-on-one interactions with NTUA's personnel & field visits were extremely valuable in documenting these existing processes



Field Visit to NTUA customer: Bertha Simpson's Residence Narrow Canyon - Kayenta District, Arizona



Pictured: Keith Candelaria, Debbie Tewa, Velissa Sandoval, Shaun Tsabetsaye, Marlene Brown, Melissa Parrish, Vircynthia Charley, Larry Ahasteen

Not pictured: Sandra Begay-Campbell (photographer)